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Unfortunately, complete sets of Volume XX (the first year after the reorganization of the MONTHLY) are nearly exhausted, so that it will be impossible to supply any more libraries or individuals with these volumes, though the calls for them are numerous. But it is proposed to bind the few sets of this volume which still remain and place them in the library in order that they may be loaned to members who may desire to see them. Sets of Volumes XXI and XXII are also running low, but several more may be had at two dollars and fifty cents per volume by those who apply early for them. It has been our purpose to make the issues of Volume XXIII sufficiently large to cover all contingencies; but even here, the unexpected demands have drawn heavily on our supply.

No complete sets of the MONTHLY for the years preceding the reorganization in 1913 are available, but numerous separate volumes and single copies can be had at two dollars per volume or twenty-five cents for single copies; and the Managing Editor will be pleased to assist members of the Association, as far as possible, in completing broken sets or volumes.

NOTES AND NEWS.

SEND ALL COMMUNICATIONS TO D. A. ROTHROCK, Indiana University, Bloomington, Ind.

Dr. R. W. BURGESS, of Cornell University, has been appointed instructor in mathematics at Brown University.

In *Science* for April 21 is a four-page paper on "A new method for the graphic solution of algebraic equations," by Professor H. G. DEMING, of the University of the Philippines.

At the spring meeting of the New England Association of Mathematical Teachers held at the Massachusetts Institute of Technology on May 6, Professor R. C. Archibald read a paper on "Euclid and his works."

The one hundred eighty-fourth regular meeting of the American Mathematical Society was held in New York City on Saturday, April 29, 1916. Twenty-six papers were presented at the two sessions. There were present fifty-one members.

Doctor HENRY M. SHEFFER is instructor in philosophy at the College of the City of New York. Doctor Sheffer is a member of the American Mathematical Society and of the Mathematical Association of America and has many interests on the mathematical side of philosophy.

The Benjamin Peirce instructorships at Harvard University have been filled by the appointments of Dr. E. KIRCHER and Dr. W. L. HART. The latter has just received the doctorate at the University of Chicago.

At Sheffield Scientific School of Yale University, Dr. E. J. MILES has been promoted to an assistant professorship of mathematics. Dr. Miles graduated at Indiana University in 1906, was granted the A.M. degree at Swarthmore College in 1907, and received the doctorate at the University of Chicago in 1910.

On the evening of March 4, 1916, Dean GEORGE D. OLDS, head of the department of mathematics in Amherst College, spoke at Mount Holyoke College to the students in the mathematics classes. His subject was "Reminiscences of my German teachers in the early eighties."

The sixth regular meeting of the American Mathematical Society at Chicago, being the thirty-seventh regular meeting of the Chicago Section, was held at the University of Chicago, Friday and Saturday, April 20 and 21, 1916. There were present forty-six members. Thirty papers were presented.

At the March meeting of the Brown University Mathematical Club, sixty-eight members were present, and Professor N. F. DAVIS presided. The following papers were presented by the students: "History and mathematics of the sundial," by Miss RUTH H. HALL; "Linkages with numerous models," by B. H. BROWN.

"The Mathematical Association of America," is the title of an article by President E. R. HEDRICK in *School and Society* for March 11, 1916. In this paper President Hedrick sets forth the history culminating in the organization of the Association, especially in its relation to the American Mathematical Society.

Miss OLIVE C. HAZLETT has published her Doctor's dissertation in the *American Journal of Mathematics*. The title is: "On the classification and invariantive characterization of nilpotent algebras." Doctor Hazlett is to begin work as a member of the faculty of Bryn Mawr College in September, 1916.

An indication of the great decrease in the number of new publications in the natural and exact sciences, occasioned by the European war, is the size of Vol. 37 (1915) of "Naturæ Novitates." It contains only 340 pages, as compared to more than 500 pages in 1914, and upwards of 620 pages each for the years of 1912 and 1913.

Upon the occasion of the celebration of the seventieth birthday of the distinguished Swedish mathematician, Professor M. G. MITTAG-LEFFLER, he and his wife set aside their entire fortune to be used in founding an international institute for pure mathematics. The *Acta Mathematica* has been edited by Professor Mittag-Leffler since its founding in 1882.

The first meeting of the Ohio Section of the ASSOCIATION was held at Columbus, on April 21, 22, 1916. This section was formed at Columbus at the same time that the national association was organized and application for admission was made then. A full report of this meeting will be printed in the June issue.

"Studies on Divergent Series and Summability," is the title of a monograph by Professor W. B. FORD, which constitutes Volume II of the Scientific Series of Publications by the University of Michigan. These studies are published by the Macmillan Company. The first volume, which was recently reviewed in the MONTHLY was "Robert of Chester's Latin translation of the algebra of Al-Khowarizmi," by Professor KARPINSKI.

In the publications of the General Education Board, ABRAHAM FLEXNER has discussed the topic, "A Modern School," in which his reference to mathematics is much along the same line as that of some other writers, such as the commissioner of education of Massachusetts and the state superintendent of New Hampshire. This document is quite fully outlined in *School and Society* for April 22, 1916.

A number of reprints have been received from the *Proceedings of the Edinburgh Mathematical Society,* entitled: "Research papers of the mathematical department of the University of Edinburgh." The authors are: E. T. WHITTAKER, E. LINDSAY RICE, L. R. FORD, A. G. BURGESS, EDWARD BLADES, and ARCHIBALD MILNE. This mathematical laboratory is under the direction of Professor E. T. WHITTAKER, and the publications relate for the most part to the field of applied mathematics.

The initial number of a mathematical periodical, *Revista de Matematicas,* edited by MANUEL GUITARTE, Buenos Aires, Argentina, appeared recently, and contains articles as follows: "Mathematics, its nature and importance," by C. C. DASSEN; "On algebraic division," by E. REBUELTO; "Questions of elementary mathematics related to the theory of groups and the differential calculus," by J. DUCLOUT; "The potential function in hyperspace," and "Area of rectilinear triangles, some particular cases," by M. GUITARTE. The *Revista* is published in the Spanish language and is to appear bi-monthly.

At the Kansas State Agricultural College, a mathematical club has been organized and in operation for several years. The club is composed of students and members of the departmental faculty; it meets bi-weekly and presents interesting programs upon pedagogical, historical and applied subjects. The printed program for the current year shows a very interesting selection of topics. The membership as indicated upon the program consists of one hundred and twenty-four persons.

At the twenty-eighth Educational Conference of the academies and high schools in relations with the University of Chicago, on Friday and Saturday, April 14 and 15, 1916, the mathematical section, which was in charge of Professor J. W. A. YOUNG, had for its general subject, "The consideration of the relative importance of topics usually treated in algebra and plane and solid geometry with reference especially to the credit value of the unit." There were also discussions of current committee reports on the "definition of the units in mathematics" and on "mathematics in the secondary school of tomorrow."

The Mathematical Club of Smith College was organized in 1899. Its membership is limited to students of the senior and junior classes who are carrying major courses in mathematics. Professor Cushing is president and other members of the faculty and the graduates living in the city are admitted to honorary membership. The club meets once in three weeks for the consideration of papers presented by the students or the faculty, and two social meetings are held annually. During the last year a study was made of the history of mathematics, considering first the general development of the subject, and later some of the great names in mathematical literature.

Mr. PHILIP E. B. JOURDAIN, of Fleet, near London, contributes to *Mind* (Vol. 25, pp. 42–55) an article on "Zeno's Flying Arrow: An Anachronism," in which Zeno is represented in hades as discussing with Socrates the views regarding motion held in ancient and modern times. Zeno comments even on Bertrand Russell's Lowell Lectures of 1914. The article is extremely entertaining. Jourdain holds that Zeno desired to combat the Pythagorean belief that lines are made up of points. The version of the Arrow by Sextus Empiricus, "a man never dies, for if a man die, it must be either at a time when he is alive or at a time when he is not alive," is compared with the claim of the Chinese philosopher, Hui Tzŭ, that "a motherless colt never had a mother; for when it had a mother it was not motherless, and at every other moment of its life it had no mother."

At the meeting of the Iowa Academy of Science in Des Moines on April 27, the members of the Mathematical Association of America who were present held a conference and decided to petition the Council for the establishment of an Iowa section. An organization was effected with Professor A. G. SMITH, of the State University, as president, Professor G. A. CHANEY, of the State College of Agriculture and Mechanic Arts, as vice-president, and Professor I. F. NEFF, of Drake University, as secretary-treasurer. Professor R. B. McClenon of Grinnell College, and Professor J. F. Riley of the State University were appointed a committee on membership. The officers were instructed to prepare and present a petition to the Council for the establishment of the Iowa Section, the petition to be sent for signatures to all the thirty-two members of the ASSOCIATION resident in the State of Iowa.

"Constructive Geometry" is the title of a pamphlet of 75 pages by E. R. HEDRICK, recently published by the Macmillan Company. It is in the form of a notebook with blank pages interspersed. The constructions and suggestions are exceedingly interesting and well organized. The following quotation from the preface adequately states the character and purpose of the work: "The saying is trite that students who enter formal courses in Euclidean Geometry have to learn both the strange methods of formal logic and the equally strange geometric forms. A course to acquaint students with the elementary forms and constructions is valuable particularly to those who never go on to a more formal course and it furnishes a basis for a truer comprehension by those who do go on. Such courses are deservedly popular in Europe, but no good American geometric notebook exists. This is modeled after those long used successfully in England, some of which have been extensively used in America."

The Twenty-First Summer Meeting and Eighth Colloquium of the American Mathematical Society will be held at Harvard University during the week beginning Monday, September 4, 1916. The first two days will be devoted to the regular sessions for the presentation of papers. The Colloquium will open on Wednesday morning and close on Saturday morning. Two courses of five lectures each will be given by Professors G. C. EVANS, of Rice Institute, and OSWALD VEBLEN, of Princeton University. A brief outline of the courses is given in the May issue of the *Bulletin.* The year 1916 marks the twenty-fifth anniversary of the broadening out of the Society toward a national organization and of the founding of the *Bulletin.* It is proposed to arrange an appropriate celebration of this event at the summer meeting. Some seventy-five of the members of the Society in the year 1891 have retained their membership through these twenty-five years. Many of these will, doubtless, attend the celebration, which is itself a notable milestone in the Society's progress. The younger generation, on whom rests the Society's future, should also be there in large numbers, to take over the responsibility of guiding the destinies of the Society for the next quarter century.

The annual meeting at Ann Arbor of the Mathematics Section of the Michigan Schoolmasters' Club was opened by a luncheon Thursday noon, March 30, Newberry Hall, at which some sixty were present. Several five-minute talks contributed to the pleasure of the occasion. After the luncheon the meeting adjourned to the auditorium of the New Science Hall, where Professor Karpinski presented an address, illustrated by stereopticon, on The Story of Algebra. A second meeting was held on Friday at which several short papers were presented on the relation of higher mathematics to elementary mathematics. Professors Glover, Bradshaw, Running, Field, and Dr. Hopkins participated in the discussion, with reference to actuarial mathematics, projective geometry, calculus, mechanics and analytical geometry, respectively. The remainder of the program was devoted to various phases of the teaching of high-school mathematics. Of particular interest was an account of the continuation-school work at the Cass Technical School, with pupils drawn largely from the workers in the Detroit automobile plants. Mr. Lewis Hayes, an experienced and graduate engineer, who is in charge of the work in mathematics, gave an illuminating account of the preparation in arithmetic, algebra, geometry, and trigonometry which is actually required by the skilled workers in manufacturing plants. At the meeting next year it is proposed to discuss the question of forming a Michigan Section of the Mathematical Association of America. Mr. John Craig, of Muskegon, and Mr. W. V. Garretson, of Ann Arbor, were elected chairman and secretary, respectively, of the Section for the coming year.